

In the Claims

Please amend the claims as follows:

Claims 1-21 (Cancelled)

22. (Previously Presented) An integrated circuit package separator for separating a plurality of integrated circuit packages from one another, the integrated circuit packages being provided as integrated circuit chip components joined to a board, the separating including cutting the board, the separator comprising:

a panel;
a plurality of blocks over the panel, the blocks having curved upper surfaces and being configured to support the board while leaving the integrated circuit chip components extending between the block upper surfaces and the panel;

a cutting mechanism configured to cut the board while the board is supported on the blocks and to thereby separate the integrated circuit packages from one another; and

wherein the panel is immobile relative the plurality of the blocks.

Claims 23-30 (withdrawn).

31. (Previously Presented) The separator of claim 22 further comprising pins extending upwardly from beneath the panel to beyond an upper surface of the panel, the pins configured to extend into the board and retain the board over the panel.

32. (Previously Presented) The separator of claim 31 wherein the pins do not extend through the panel.

33. (Previously Presented) The separator of claim 31 further comprising an actuator beneath the panel and configured to vertically displace the panel.

34. (Previously Presented) The separator of claim 33 wherein the actuator is pneumatically powered.

Claims 35-91 (Cancelled).

92. (Previously Presented) The separator of claim 22 further comprising an actuator beneath the panel and configured to vertically displace the panel.

93. (Previously Presented) The separator of claim 22 further comprising a pneumatically-powered actuator beneath the panel and configured to vertically displace the panel.

Claims 94-99 (Cancelled).

100. (Previously Presented) The separator of claim 22 further comprising pins extending upwardly from beneath the panel to beyond an upper surface of the panel, the pins configured to extend into the board and retain the board spaced from the panel.

101. (Previously Presented) The separator of claim 22 wherein the panel comprises aluminum.

102. (Previously Presented) The separator of claim 22 wherein the blocks are formed as one piece with the panel.

103. (Previously Presented) The separator of claim 22 wherein the blocks are formed as discrete pieces from the panel.

104. (Previously Presented) The separator of claim 22 wherein the blocks are formed as discrete pieces from the panel and are fastened to the panel.

105. (Previously Presented) The separator of claim 22 wherein the blocks extend above an uppermost surface of the panel at a height from about 0.035 inches to about 0.045 inches.

106. (Previously Presented) The separator of claim 22 wherein the blocks extend above an uppermost surface of the panel at a height from about 0.135 inches to about 0.145 inches.

107. (Previously Presented) The separator of claim 22 wherein the panel is secured to the separator by screws.

108. (Previously Presented) The separator of claim 22 wherein the panel is secured to the separator by rivets.

109. (Previously Presented) The separator of claim 22 wherein the panel is molded as part of the separator.

110. (Previously Presented) An integrated circuit package separator for separating a plurality of integrated circuit packages from one another, the integrated circuit packages being provided as integrated circuit chip components joined to a board, the separating including cutting the board, the separator comprising:

a panel having an uppermost surface and molded as part of the separator;
a plurality of blocks formed as one piece with the panel and extending upward from the uppermost surface of the panel to support the board leaving the integrated circuit chip components extending between the blocks and panel; and
a cutting mechanism configured to cut the board while the board is supported on the blocks and to thereby separate the integrated circuit packages from one another.

111. (Previously Presented) The separator of claim 110 wherein the panel comprises aluminum.

112. (Previously Presented) The separator of claim 110 further comprising an actuator beneath the panel and configured to vertically displace the panel.

Please add the following new claims:

113. (New) The separator of claim 31 further comprising a pair of pneumatic actuators provided beneath a support comprising the panel and comprising first and second lift members, the lift members configured to vertically lift the support having the panel off the pins by contacting the support, and wherein each actuator of the pair includes release valves configured to equilibrate a back pressure of each actuator to ambient during lifting of the support.

114. (New) The separator of claim 34 wherein the actuator comprises a release valve configured to equilibrate a back-pressure of the actuator to ambient during lifting of a support comprising the panel.

115. (New) An integrated circuit package separator, comprising:

a panel, wherein integrated circuit packages are provided as integrated circuit chip components joined to a board;

a plurality of ribs over the panel, the ribs having curved upper surfaces and being configured to support the board while providing the integrated circuit chip components on an underside of the board in slots configured to extend between upper surfaces of the ribs and the panel;

a cutting mechanism configured to cut the board while the board is supported on the blocks and to thereby separate the integrated circuit packages from one another; and

wherein the panel is immobile relative the plurality of the blocks, during separation of a plurality of integrated circuit packages from one another.

116. (New) The separator of claim 115 further comprising a pair of pneumatic actuators provided beneath a support comprising the panel and comprising first and second lift members, the lift members configured to vertically lift the support having the panel off the pins by contacting the support, and wherein each actuator of the pair includes release valves configured to equilibrate a back pressure of each actuator to ambient during lifting of the support.

117. (New) The separator of claim 115 wherein the actuator comprises a release valve configured to equilibrate a back-pressure of the actuator to ambient during lifting of a support comprising the panel.

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